

IAP4 Rec'd PCT/ 1.9 DEC, 201

1 9 DEU 2005) ad for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trade-nark Office; U.S. DEPARTMENT OF COMMERCE
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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

ATTORNEY'S DOCKET NUMBER T3502-10174US01

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

10/537,050~ INTERNATIONAL FILING DATE INTERNATIONAL APPLICATION NO. PRIORITY DATE CLAIMED December 2, 2002 TITLE OF INVENTION APPARATUS AND METHOD FOR PERFORMING TERTIARY TREATMENT OF SEWAGE BASED ON POROUS **FILTERING MEDIA** APPLICANT(S) FOR DO/EO/US Young-Sug KIM; Moon-Hyoung LEE, Hong-kyu JANG, Chung-Hee CHANG, and Chai-Sung GEE Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 1. 2. 🔯 This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items з. 🔲 (5), (6), (9) and (21) indicated below. 4. 🗍 The US has been elected (Article 31). 5. 🔲 A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. c. Li is not required, as the application was filed in the United States Receiving Office(RO/US) An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). 6. 🔲 a. is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). 7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. 8. 🔲 An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. 🛛 An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). An English language translation of the annexes of the International Preliminary Examination Report under PCT 10. 🔲 Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 11. 🔲 12. 🛛 An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. 🔲 A preliminary amendment. 14. 🔲 An Application Data Sheet under 37 CFR 1.76. 15. 🔲 A substitute specification. 16. 🛛 A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. 17. 🔲 18. 🔲 A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. 🔲 A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).



PTO 1390 (Rev. 07-2005)
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U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/537,050 INTERNATIONAL APPLICATION NO.				ATTORNEY'S DOCKET NUMBER T3502-10174US01				
20. Other items or information: Copy of Notification of Missing Requirements								
The following	fees have been sub	mitted				CALCULATIONS	PTO USE ONLY	
21. Basic national	al fee (37 CFR 1.492	\$						
22. Examination	fee (37 CFR 1.492(\$						
If the written opinion pro IPEA/US indi All other situations	icates all claims sati							
If the written opinion proceedings of IPEA/US indicated the IPEA/US indicated the IPEA/US international International Search Re	icates all claims sati 45(a)(2)) has been p Searching Authority port prepared by an ed to the US by the I	\$						
TOTAL OF 21, 22 and 23 =						\$		
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.82(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.								
Total Sheets	Extra sheets		Number of each additional 50 or fraction thereof (round up to a whole number) RATE					
- 100 =	/50 =			X \$250		\$		
Surcharge of \$130.00 for the date of commencement	\$130.00							
CLAIMS	NUMBER	FILED	NUMBER EXTRA	RATE		\$		
Total Claims		27 - 26 =	1	× \$50		\$ 50.00		
Independent Claims		2 - 3=		x \$200		\$		
MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360						\$		
		\$180.00						
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.						\$90.00		
SUBTOTAL =						\$90.00		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).					\$			
TOTAL NATIONAL FEE =						\$		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +						\$40.00		
TOTAL FEES ENCLOSED =						\$ 130.00		
						Amount to be refunded:	\$	
						Amount to be charged:	\$	

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a.	\boxtimes	A check in the amount of \$130.00 to cover the above fees is enclosed.				
b.		Please charge my Deposit Account No. in the amount of \$ to cover the above fee A duplicate copy of this sheet is enclosed.	es.			
c.	\boxtimes	The Commissioner is hereby authorized to charge any additional fees which may be requoverpayment to Deposit Account No. 50-1165. A duplicate copy of this sheet is enclosed				
d.		Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card Information should not be included on this form. Provide credit card information and authorization on PTO-2038				
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.						
SE	ND AL	L CORRESPONDENCE TO:	2-72		12/19/05	
Miles & Stockbridge P.C. 1751 Pinnacle Drive Suite 500 McLean, VA 22102-3833 USA		innacle Drive	SIGNATURE	James T	Carmichael	
US)A	·	REGISTRATION N	UMBER	<u>45,306</u>	



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE UNITED STATES DEPARTMENT OF COMMI United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

U.S. APPLICATION NUMBER NO.

FIRST NAMED APPLICANT

ATTY. DOCKET NO.

10/537,050

Young-Sug Kim

T3502-10174US01

PCT/KR02/02268

INTERNATIONAL APPLICATION NO.

I.A. FILING DATE

PRIORITY DATE

12/02/2002

181 MILES & STOCKBRIDGE PC 1751 PINNACLE DRIVE SUITE 500 MCLEAN, VA 22102-3833

- ~ 1 1 4 2005

TAMESON OF LANDERO. TYEE SELVICE

CONFIRMATION NO. 3196 371 FORMALITIES LETTER *OC000000017408477

Date Mailed: 11/10/2005

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Indication of Small Entity Status
- Copy of the International Application filed on 06/02/2005
- Copy of the International Search Report filed on 06/02/2005
- U.S. Basic National Fees filed on 06/02/2005

DUE DATE CALL UP

The applicant needs to satisfy supplemental fees problems indicated below.

The following items MUST be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Additional claim fees of \$25 as a small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.
- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$65 for a small entity in compliance with 37 CFR 1.27, must be submitted with the missing items identified in this letter.

SUMMARY OF FEES DUE:

Total additional fees required for this application is \$90 for a Small Entity:

• \$65 Surcharge.

- Total additional claim fee(s) for this application is \$ 25
 - \$25 for 7 total claims over 20.

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

A copy of this notice **MUST** be returned with the response.

INDIA L EVANS

Telephone: (703) 308-9140 EXT 212

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER 1	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/537,050	PCT/KR02/02268	T3502-10174US01

FORM PCT/DO/EO/905 (371 Formalities Notice)